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| **Africa RISING East And Southern Africa Activity Plan 2017-2021** | | | |
| **Outputs** | **Activities** | **Milestones over time** | **Means of Verification** |
| 1.1 Demand-driven, climate-smart, integrated crop-livestock research products (contextualized technologies) for improved productivity, diversified diets, and higher income piloted for specific typologies in target agro-ecologies | 1.1.1 Assess and iteratively improve crop-livestock combinations from Phase I |  |  |
|  | 1.1.2 Evaluate and implement pathways that are effective at improving access to seeds and clonal materials of modern varieties of legumes, cereals, vegetables, and forages |  |  |
| 1.2 Demand-driven, labor-saving and gender-sensitive research products to reduce drudgery while increasing labor efficiency in the production cycle piloted for relevant typologies in target areas | 1.2.1 Support local partners through training on appropriate drudgery-reducing technology delivery |  |  |
|  | 1.2.2 Co-adapt existing mechanization options with target communities |  |  |
| 1.3 Tools (including ICT-based)and approaches for disseminating recommendations in relation to above research products, integrated in capacity development | 1.3.1 Conduct extrapolation domain analysis based on GIS, agro-ecology, and crop model-generated information to establish the potential of technologies for geographical reach |  |  |
| 2.1 Demand-driven research products for enhancing soil, land and water resources management to reduce household/community vulnerability and land degradation piloted in priority agro-ecologies | 2.1.1 Characterize current practices in ESA through identifying formal and informal arrangements for access to and use of water and land resources |  |  |
|  | 2.1.2 Identify opportunities for using supplementary irrigation in different farming systems of the ESA target country agro-ecologies |  |  |
| 2.2 Innovative options for land and water management in selected farming systems demonstrated at strategically located learning sites | 2.2.1 Set up demonstration and learning sites in target ESA communities |  |  |
| 2.3 Inclusive approaches and methods for collective action to deliver innovative water, soil and land resources management piloted in target communities | 2.3.1 Conduct and evaluate participatory and inclusive testing of approaches within the demonstration sites for improving access to and use of water resources for supplementary irrigation to address rainfall variability |  |  |
| 3.1 Demand-driven research products to reduce postharvest losses and improve food quality and safety piloted in target areas | 3.1.1 Conduct packaging and delivery of postharvest technologies through community and development partnerships with iterative review, refining, and follow-up |  |  |
| 3.2 Nutritional quality improved through increased accessibility and use of nutrient-dense crops and livestock products | 3.2.1 Promote and deploy nutrient-rich crop varieties and livestock feed resources in target communities |  |  |
| 3.3 Capacity of farming communities and partners to consume nutrient-dense crops and livestock product enhanced | 3.3.1 Conduct packaging and delivery of crop and fodder varieties and associated management practices through community and development partnerships with iterative reviewing and refining. |  |  |
| 4.1 Access to profitable markets for smallholder farming communities and priority value chains facilitated | 4.1.1 Conduct comprehensive value-chain analysis with specific focus on SI technologies |  |  |
|  | 4.1.2 Conduct a value chain stakeholder analysis (stakeholder mapping) |  |  |
|  | 4.1.3 Develop a value chain enhancement strategy (including collective action approaches, contractual arrangements, and standardization |  |  |
|  | 4.1.4 Identify and evaluate existing mechanisms that inform farmers about dynamic market needs |  |  |
|  | 4.1.5 Conduct an analysis of the existing baseline survey data and supplement them with qualitative surveys from target regions |  |  |
| 5.1 Opportunities for the use and adoption of sustainable intensification technologies identified for relevant farm typologies | 5.1.1 Farmer participatory experimentation with crop and soil management and integrated crop-livestock technologies in on-farm situations |  |  |
|  | 5.1.2 Use farm trial data to apply crop simulation models and assess performance over space and time, including assessment of climate-smart technologies to establish the potential for adaptation and mitigation |  |  |
|  | 5.1.3 Establish adaptive field experiments with mineral and animal-derived organic manure |  |  |
|  | 5.1.4 Demonstrate the use and impact of crop residues, forages, and other organic resources as animal feed and nutrient resources |  |  |
|  | 5.1.5 Use crop-livestock models for trade-off analysis |  |  |
|  | 5.1.6 Disseminate best-fit integrated crop-livestock technologies to reach and have effect on small-scale farmers in a landscape context |  |  |
|  | 5.1.7 Conduct cost-benefit and gender analysis coupled with other socio-economic analyses to identify and quantify adoption constraints and opportunities for different farmer contexts |  |  |
| 5.2 Strategic partnerships with public and private, initiatives for the diffusion, and adoption of research products established | 5.2.1 Map and assess relevant stakeholders to establish dialogue for the exploration of mutual synergies for scaling delivery of validated technologies. |  |  |
|  | 5.2.2 Leverage/link and integrate (engagement and outreach) with existent initiatives including Government extension systems to support and encourage the delivery pathways |  |  |
| 5.3 Gender-sensitive decision support tools for farmers to assess technology-associated risk and opportunities used by partners | 5.3.1 Identify and communicate gender-sensitive decision support technologies in the context of different farm typologies |  |  |
| 5.4 A technology adoption, monitoring, evaluation, and learning framework for use by the project team and scaling partners released | 5.4.1 Monitor and modify the progress of technology adoption process towards scaling |  |  |
|  | 5.4.2 Develop knowledge sharing centers and learning alliances within existent local and regional institutions |  |  |